VMware NSX Migration for VMware Cloud Director Release Notes

Release 1.1
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You can find the most up-to-date technical documentation on the VMware website at:

https://docs.vmware.com/

Contents

Introduction 1

This guide includes recommendations, known issues, and software limitations for VMware NSX$^{®}$ Migration for VMware Cloud Director™ tool. It also addresses issues filed during the validation of the VMware NSX Migration for VMware Cloud Director tool.

For additional information, see the NSX Migration for Cloud Director User Guide.

Supported Topology

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The NSX Migration for VMware Cloud Director tool supports the following topology.

- One Organization VDC per migration

- One edge gateway connected to one external network per organization VDC

- Routed including distributed and isolated organization VDC networks that are not shared and are backed by VXLAN or VLAN network pools

- 10 Organization VDC networks

Supported Features and Edge Gateway Services

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This section lists the features and edge gateway services supported by NSX Migration for VMware Cloud Director.

This chapter includes the following topics:

- Supported Features
- Supported Edge Gateway Services

Supported Features

The NSX Migration for VMware Cloud Director tool supports the following features:

- Compute policies including VM placement and VM sizing policy
- Storage policies
- Catalog migration from NSX Data Center for vSphere backed Org VDC to NSX-T Data Center backed Org VDC including vApp templates and media

Note For migration, ensure that the media is not attached to VM.

- Standalone VM
- VM with connected media
- VMs with snapshots
- Affinity and anti-affinity rules
- Routed including distributed and isolated Org VDC networks
- The vApps must be directly connected to the Org VDC network, not through the routed vApp network.
- Isolated vApp networks without the DHCP service

Supported Edge Gateway Services

The NSX Migration for VMware Cloud Director tool supports the following edge gateway services:

- User-defined firewall rules

    - User-defined firewall rules for source and target supports IP, IPSET, and routed Org VDC network objects

- NAT44 rules

- DHCP for non-isolated Org VDC networks

- BGP configuration (requires Org VDC dedicated target Tier-0 Gateway)

- Policy-Based IPSEC VPN with preshared keys and supported parameters for IPSEC

- IPSET in Grouping Objects

- DNS forwarding

Unsupported Features and Edge Gateway Services

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The NSX Migration for VMware Cloud Director tool does not support some features and edge gateway services.

Unsupported Networking Features

- More than one Organization VDC edge gateway exists in the Source Organization VDC

- DHCP service enabled on the Source Organization VDC isolated network

- Shared Organization VDC network

- Organization VDC networks that are directly connected to external networks.

- Routed vApp networks

- vApps that are not connected through the routed vApp network.

- Distributed Firewall

- If the fencing mode is enabled on vApp

Unsupported Organization VDC Features

- Edge gateway firewall is in the disabled state

- Firewall rule with any of the following as source/target in Source Organization VDC:

  - Security groups

  - Internal

  - Gateway interfaces

  - Virtual Machine

  - TCP/UDP any port

- One to many DNAT rules

- OSPF dynamic routing

- Static routing

- DHCP bindings or DHCP relay

- IPSEC route-based VPN or with the certificate authentication

- SSL VPN

- L2 VPN

- Load balancing

- NAT and routing of IPv6

Unsupported Organization VDC Features

- Independent named disks

- Fast provisioning

- Suspended VM

- Empty vApps

- Migration of catalog media attached to a VM

Known Issues

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The known issues are grouped as follows.

During the Rollback, if the vApp is Power-On, the vApp Migration from VDC of NSX-T Data Center to VDC of NSX Data Center for vSphere.

The vApp migration using moveVApp API fails if a VM in the vApp is power on. It throws an internal server error for the failed vApp.

Workaround: You are required to:

- Create a vApp on the VDC of NSX Data Center for vSphere
- Power off the vApp on the VDC of the NSX-T Data Center
- Migrate the VMs manually from NSX-T Data Center to NSX Data Center for vSphere.

In the Rollback Process, Failed to Delete the Organization VDC of NSX-T Data Center

If the organization VDC if NSX-T Data Center consists of organization VDC gateway, routed and isolated network. The vApp that has single VM is connected to both the networks then the NSX Migration for Cloud Director failed to delete the organization VDC of NSX-T Data Center with the following exception: `com.vmware.vcloud.api.presentation.service.BadRequestException: Cannot delete organization VDC network`